



6th IMEKO FOODS

NOVEMBER 7-9, 2022

FINAL PROGRAM



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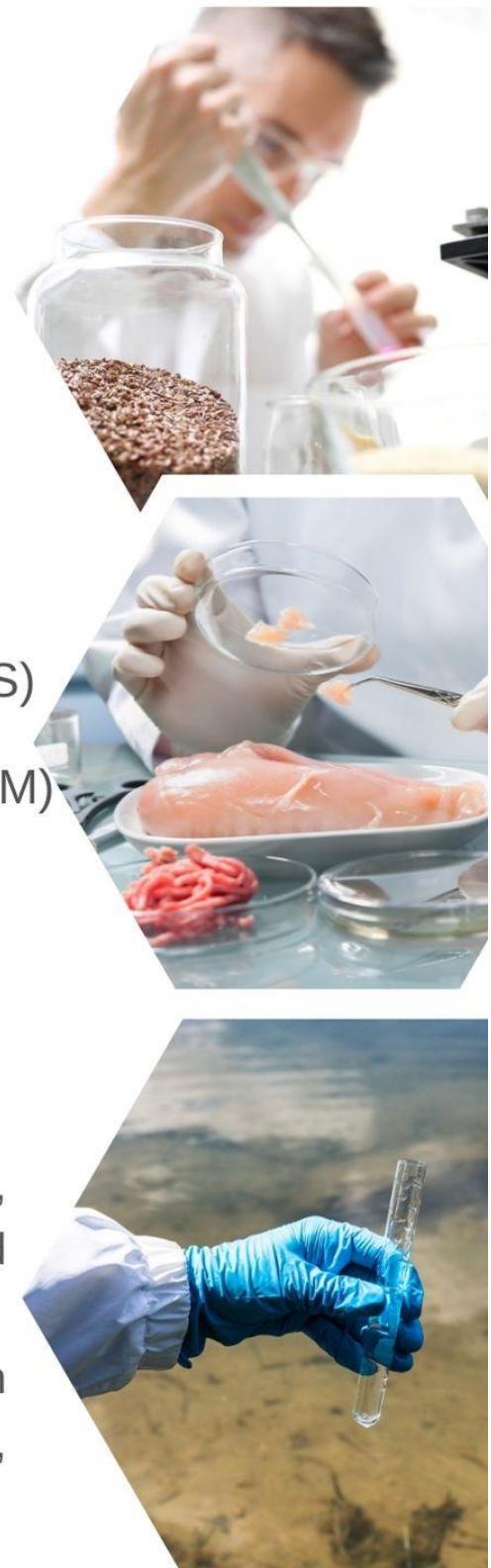
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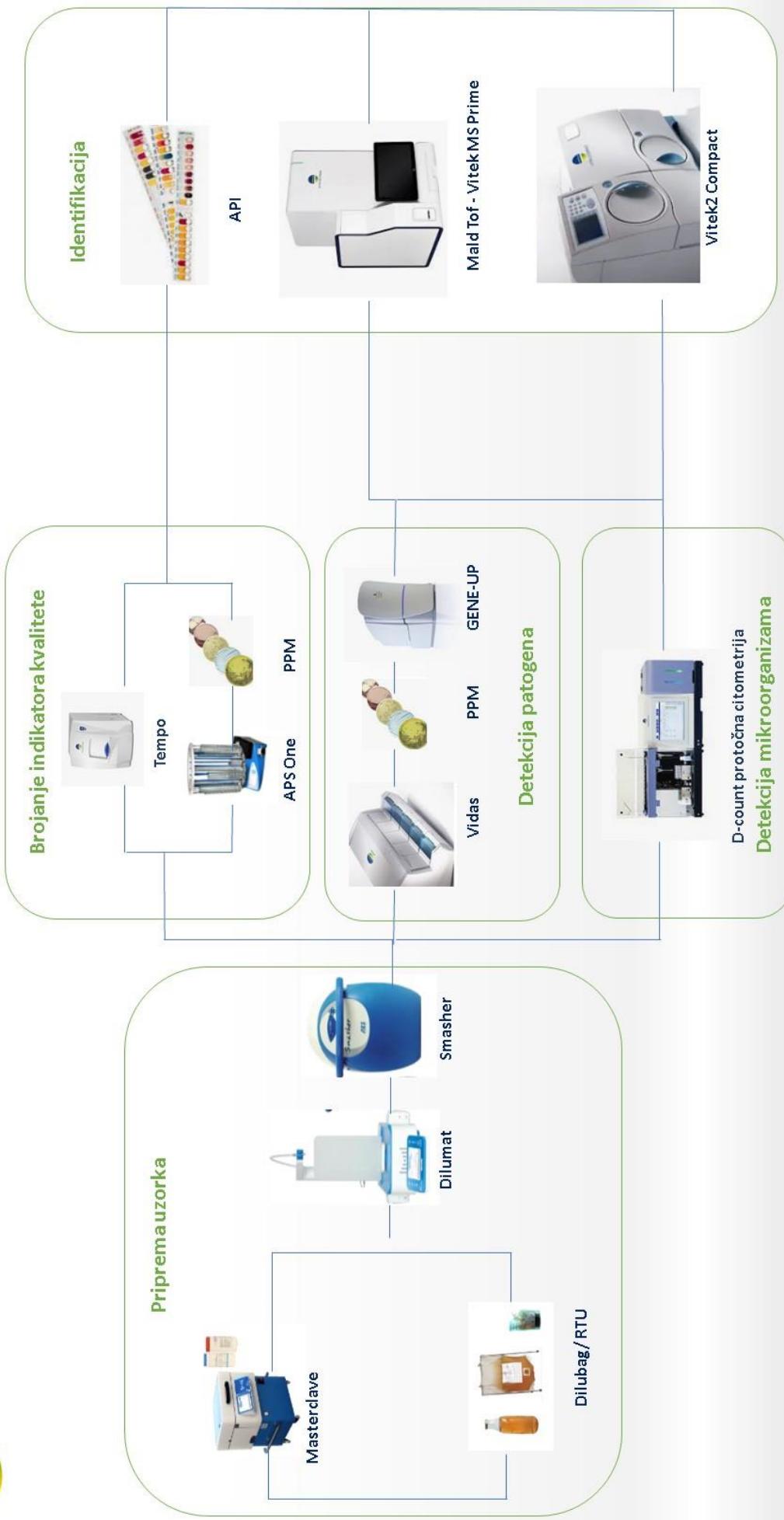


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MESSAGE FROM THE TC 23 CHAIRMAN



The global food market with increasing international food trade and the impact of the Covid-19 pandemic on the global food supply chain brings many challenges. It is yet to be seen whether they are opportunities or threats within the landscape of metrology in food and nutrition. During this 6th international conference of IMEKOFOODS we strive, together with you, to strengthen the links between globalization, metrology, nutrition, food safety and food quality. Therefore we look, with great interest, forward to discuss with you the challenging questions on metrology in Food and Nutrition.

CONFERENCE ORGANIZERS:

International Measurement Confederation
IMEKO TC-23
EUROLAB

CO-ORGANIZERS:

METROFOOD
Research Institute "Ruđer Bošković"
Electrical Engineering Institute Nikola Tesla

LOCAL ORGANIZERS

Croatian Metrology Society
MSc Mladen Jakovčić, Croatia, President of HMD, Croatian Metrology Society and Member of IMEKO TC10, jakovcic@hmd.hr
MSc Biserka Bajzek Brezak, Croatia, Member of Board of HMD (Croatian Metrology Society),
biserka.bajzek.brezak@gmail.com

CONFERENCE COMMITTEES

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Joris van Loco, Scientific Director at Sciensano
PhD Sandra Šikić, Croatia, Director's advisor at Andrija Stampar Teaching Institute of Public Health
Sandra.sikic@stampar.hr

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FINAL PROGRAM

6th IMEKOFOODS CONFERENCE

„Food on a global market – opportunities and threats“

Monday, 7th November 2022

08:00 - 09:00	Registration	
09:00 - 09:20	ASIMON HALL Opening Welcome words from IMEKO MSc Biserka Bajzek Brezak, <i>Croatian Metrology Society, Croatia</i> Sandra Šikić, PhD, <i>Andrija Stampar Teaching Institute of Public Health, Croatia</i> Mr. Joris van Loco, <i>Sciensano, Belgium</i>	
Session Chairs:	Joris van Loco Sandra Šikić	
09:30 - 10:10	Plenary presentation Residual of pesticides in food: methodology and risk assessments Professor dr hab Ewa Bulska, <i>University of Warsaw, Poland</i>	
Session:	Recent trends in food research infrastructures	
10:10 - 10:40	Key note presentation Integrated research infrastructures' initiatives in support to the agrifood and the agroecological transition Dr. Claudia Zoani, <i>ENEA, Italy</i>	
10:40 - 11:00	METROFOOD-RI Service Chart: Service provision via RI for the promotion of metrology in food & nutrition Sharma S., Vandermeiren K., Donard O., Klein M., Castanheira I., Motta C., Vieira L., Zoani C., Van Loco J.	
11:00 - 11:30	Coffee break & Vendor Exhibition	
Sessions:	ASIMON HALL Nutrition and Health	BOKAR HALL Food Safety and Quality
Session Chairs:	Ivan Nastasijević	Petru Jitaru Maria Fernandes-Whaley
	Key note presentation Are edible insects suitable for people suffering gout? Kouřimská L., Sabolová M., Kulma M., Škvorová P., Veselá K., Kurečka M	Key note presentation Mass tourism - a challenge to food safety Dr.sc. Ivana Ljevaković-Musladin, dipl. ing., <i>Institute of Public Health of Dubrovnik-Neretva County, Croatia</i>
11:30 - 12:00		
12:00 - 12:20	The SOLE project: a plant greenhouse demonstrator for fresh food production in space (VIRTUAL) Garegnani M., Bennici E., Benvenuto E., Crisconio M., Desiderio A., Di Mascio E., Ferranti F., Giuliani L., Nardi L., Pacelli C., Pontetti G., Villani M.E.	METROFOOD-RI physical facilities active in the food safety sector by the end of the preparatory phase of the infrastructure (VIRTUAL) M.Z. Tsimidou, E. Pucci, M. Papadopoulou, N. Nenadis, F.Th. Mantzouridou, S.A. Ordoudi, C. Zoani

12:20 - 12:40	Impact of various fish cooking processes on the fate of Hg and Se species and the Hg-Se antagonism	Comparison of HPLC-FLD and LC-Q-TOF-MS methods for the quantitative determination of aflatoxin B1 and ochratoxin A in raw nuts collected from local markets in Valencia (VIRTUAL)
	Ribeiro M., Leufroy A., Silva J. A. L., Castanheira I., Jitaru P.	Demirtas I., Luz C., Quiles J.M., Meca G., Ozer H.
12:40 - 14:00	Lunch break	
Sessions:	ASIMON HALL	
Session Chairs:	Nutrition and Health Ivana Ljevaković-Musladin Ivančica Kovaček	BOKAR HALL Food Safety and Quality Joris Van Loco
14:00 - 14:20	New plant-based food products enhanced by microbial processing	Supporting a safe transition towards sustainable food systems: FoodSafety4EU
	Minna Kahala*, Rina Bragge, Lucia Blasco, Emilie Gullberg Jørgensen, Tove Gulbrandsen Devold, Hilde Marit Østlie, Davide Porcellato, Vesa Joutsjoki, Juha-Matti Pihlava, Markus Nurmi, Xin Huang, Anne Pihlanto	Zoani C., Logrieco A.F., Cito N., Lattanzio V.M.T.
14:20 - 14:40	Safety and quality of the Spirulina nutritional supplements on the Slovenian market (VIRTUAL)	Exposure to lead when manufacturing cookware from scrap metal: A public health threat in the artisanal sector in DR Congo
	Masten Rutar J., Jagodic Hudobivnik M., Nečemer M., Vogel Mikuš K.(3,4), Arčon I., Ogrinc N.	Trésor Carsi Kuhangana; Erik Smolders; Karlien Cheyns; Célestin Banza Lubaba Nkulu; Peter Hoet; Joris Van Loco; Benoit Nemery; Heidi Demaege
14:40 - 15:00	The impact of dietary nucleic acids and their components on the growth of human alimentary tract cells in vitro	Accumulation and depuration assessment of microcystin congeners in Basil grown on a hydroculture
	Koziara Z., Bartoszek A.	Wannes H.R. Van Hassel; Maria Gracia Guzman Valesquez; Mohamed F. Abdallah; Bart Cottyn; Elise Tardy; Julien Masquelier1; Mirjana Andjelkovic; Andreja Rajkovic
15:00 - 15:20	Smart nutraceuticals for the prevention of childhood obesity (VIRTUAL)	EPA extraction from microalgae through supercritical carbon dioxide at pilot scale (VIRTUAL)
	Rivas A., Duoandicoechea U., Santamaría A., Alonso M., Alonso R., Izuriaga C., Salman H.	Leone G. P., Marino T., Casella P., Zoani C., Larocca V., Balducci R. and Molino A.*
16:15	GROUP PHOTO VISIT DUBROVNIK CITY	

Tuesday, 8th November 2022

08:00 - 08:30 **Registration**

Session Chairs: **ASIMON HALL**
Joris Van Loco
Sandra Šikić

08:30 - 09:10 **Plenary presentation - VIRTUAL - Prerecorded**

An European food system that contributes to public health and wellbeing from fark to fork

Biljana Borzan, *Representative of European Parliament, Member of Internal Market and Consumer Protection Committee*

09:10 - 09:40 **Key note presentation**

EUROLAB: developing an international collaboration.
Food Fraud and the impact on consumers' safety

Laura Martin, *EUROLAB Secretary General, Belgium*

9:40 - 10:20 **Lightning Round - Poster Introductions**

Poster presenters

10:20 - 11:00 **Coffee Break, Poster & Vendor Exhibition**

Session: **Food Authenticity/ Food Fraud**

Session Chairs: Adela Krivohlavek
Andrea Rossi

Key note presentation - VIRTUAL

11:00 - 11:30 Metrology in food authenticity and traceability: stable isotope approach

Prof. dr.sc. Nives Ogrinc, *Institut "Jožef Stefan", Slovenia*

11:30 - 11:50 Stable isotope ratio of native honey and cheese from the Republic of Croatia

Šikić S., Krivohlavek A., Mikulec N., Ivesić M., Barbarić F., Bošnir J.

11:50 - 12:10 Elemental analysis as a simple tool to classify beans according to their geographical origin (VIRTUAL)

Veiga M., Valle A., Carrero J. A., Arana G., Donard O. F. X., Juanena A. B., Dolado, C., Molero A., Saiz-Abajo M. J., Perez de Arenaza A., de Diego A.

12:10 - 12:30 Characterization and discrimination of Italian olive cultivars by production area using elemental analysis and LPAS combined with chemometric analysis

Pucci E., Palumbo D., Puiu A., Lai A., Fiorani L., Zoani C.

12:30 - 12:50 Elemental analysis combined with pattern recognition as a tool for fraud detection in canned red peppers (VIRTUAL)

Veiga M., Valle A., Carrero J. A., Arana G., Juanena A. B., Dolado, C., Molero A., Saiz-Abajo M. J., Donard O. F. X., Perez de Arenaza A., de Diego A.

12:50 - 13:50 **Lunch break**

ASIMON HALL

Sessions: Novel analytical methods for food quality/ novel foods

Session Chairs: Severine Goscinny
Alberto de Diego Rodriguez

BOKAR HALL

Functional foods and food processing

Minna Kahala
Lenka Kouřimská

	Key note presentation	
13:50 - 14:20	Biosensors in the meat chain continuum as a tool for animal health, food safety, food quality and food crime control Ivan Nastasijević, DVM, MPH, PhD, <i>Institute of Meat Hygiene and Technology, Serbia</i>	Effects of beneficial microbial consortia and biochar application on rhizosphere biodiversity and maize growth: The SIMBA Project (VIRTUAL) Bevilino A., Fiore A., Hett J., Caldara M., Cangioli L., Maestri E., Aprea G., Ambrico A., Magarelli A., Trupo M. 1, Gullì M., Graziano S. 3, Ercole E., Mengoni A., Daniel Neuhoff D., Marmiroli N., Pihlanto A., Brunori A. (VIRTUAL)
14:20 - 14:40	Raman spectroscopy as a new measurement tool in winemaking Mandrile Luisa, Simone Giacosa, Antonella Bosso, Andrea Mario Rossi	Use of Brewers' Spent Grains as a Potential Functional Ingredient for the Production of Traditional Herzegovinian Product Ćuptern Lalic A., Karlovic A., Maric M.
14:40 - 15:00	Classification of liquid samples with NIR spectroscopy (VIRTUAL) Yoshida, K.	The effect of culinary processing on the microbiological quality of <i>Tenebrio molitor</i> Škvorová P.1, Švejstil R.1, Kouřimská L.1
15:00 - 15:20	Chemometric discrimination of X-ray irradiated mozzarella cheese based on the volatile profile by HS-SPME/GC-MS (VIRTUAL) Zianni R., Mentana A., Campaniello M., Tomauiolo M., Iammarino M., Centonze D., Palermo C.	Chickpea Proteins and Functional Properties (VIRTUAL) Kibar E.A.A.1, Aslan Ö.1
15:20 - 15:40	Fish fraud detection: can Raman spectroscopy be an alternative? Migueis, S. C.; Silva, P. M. T.; Henriques, A. R.; Castaño-Guerreiro, Y.; Moreira, F.	
15:40 - 16:00	Break & Vendor Exhibition	
Session Chairs	ASIMON HALL Sandra Šikić	BOKAR HALL Claudia Zoani
	Sessions: Risk assessment, communication and management	METROFOOD RI - FoodMetNet Workshop
16:00 - 16:30	Key note presentation Quality and safety systems of agricultural and food products in the Croatian Agency for Agriculture and Food dr. sc. Nataša Pintić Pukeč, DVM, <i>Head of the Sector for Product Quality Control of the Center for Quality Control of Livestock Products of Croatian Agency for Agriculture and Food, Croatia</i>	16:00 - 16:30 METROFOOD-RI presentation, activities, future challenges Dr. Claudia Zoani, ENEA, Italy
16:30 - 16:50	The Good, the Bad and the Ugly about food additives multi-methods Goscinny S., Detry P., Van Loco J., Van Hoeck E.	16:30 - 17:00 New EMN Food Safety and Sustainability Andrea M. Rossi (INRIM)

- 16:50 - 17:10 Anisakis in seafood: unwanted guest on a plate 17:00 - 18:00 Round table discussion
Nonković D., Hrabar J.
- 17:10 - 17:30 The influence of lifestyle choices (food, alcohol, smoking) on the blood concentration of Cd, Pb and Hg of newborns, adolescents and adults from Wallonia (VIRTUAL)
Demaegdt H., Ruttens A., Jacques A., Ruthy R., Petit J., Cheyns K., Remy S.
- 17:30 - 18:30 IMEKO TC23 meeting
20:00 Conference Dinner

Wednesday, 9th November 2022

- 08:30 - 09:00 Registration
ASIMON HALL
Session: Data and communication platforms
Session Chairs: Claudia Zoani
- Key note presentation - VIRTUAL
- 09:00 - 09:30 Driving pre-competitive research in foods; the role of the European Technology Platform - Food for Life
Prof. Tim Hogg, *European Technology Platform on Food for Life*
- 09:30 - 09:50 Electronic Core Components of METROFOOD-RI
Żołynia A., Czach J., Presser K.
- 09:50 - 10:10 A Web Application to provide Food Contamination Data to Consumers
Czach J., Żołynia A., Paschko K., Lindtner O., Presser K.
- 10:10 - 10:40 Break & Vendor Exhibition
- Session: Accreditation, PT and CRMs
Session Chair: Laura Martin
- Key note presentation - VIRTUAL
- 10:40 - 11:10 The human factor in the lab of the future
Prof. dr. Álvaro Silva Ribeiro, *National Laboratory for Civil Engineering (LNEC), Portugal*
- Key note presentation - VIRTUAL - Prerecorded
- 11:10 - 11:40 Accreditation, Proficiency Testing and Reference Materials
Stewart Jones
- 11:40 - 12:00 Creation of a European Metrology Network for Safe and Sustainable Food
Chiara Portesi,a, Milena Quagliab, Nives Ogrinc, Roland Beckerd, Gill Holcombe, Mojca Milavece, Alexandra Bogožalec Košire, Hayrettin Ozerf, Fatma Akçadagf, Mine Bilself. Elias Kakoulidessg, Silvia Malliah, Gisela Umbrichth, Gavin O'Connori, Andrea Mario Rossia
- 12:00 - 12:20 Production and Certification of Reference Materials to Prevent Food Adulteration
Şimşek Adnan, İşleyen Alper, Bilsel Mine
- 12:20 - 12:40 Enabling Chemical Metrology for Food Safety in Africa
Fernandes-Whaley M.
- 12:40 - 13:10 Closing Ceremony
13:10 Closing coffee break



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HMD

METRO FOOD
INFRASTRUCTURE FOR PROMOTING
METROLOGY IN FOOD AND NUTRITION

TECHNICAL ORGANIZER:
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